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Indian Standard
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UDC 674.03 : 681.2 : 531.7



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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110001

Price Rs 2.50

Revised Price

1.65 Cr 1

February 1974

Indian Standard

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Indian Standard

TIMBERS USED IN INSTRUMENT INDUSTRY

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 10 September 1973, after the draft finalized by the Optical and Mathematical Instruments Sectional Committee had been approved by the Mechanical Engineering Division Council.

1. SCOPE

1.1 This Standard covers the various species of timber used by the instrument industry with their botanical as well as commonly used trade names.

2. SPECIES OF TIMBER

2.1 The typical uses of various species of timber for the different instruments and their parts are given in Table 1.

2.1.1 The botanical and the commonly used trade names for the various species of timber are given in Table 2.

TABLE 1 TYPICAL USES OF TIMBER

(Clause 2.1)

SL No.	ITEM	REF TO INDIAN STANDARD*	TIMBER SPECIES NO. (See TABLE 2)
i)	Rulers and engineering scales	IS : 3218-1968 IS : 1480-1960 IS : 1482-1970	1, 11, 12, 25, 26, 27, 32, 33, 34, 35 and 47
ii)	Set squares	IS : 1561-1962	2, 3, 7, 8, 9 and 10
iii)	Tee squares	IS : 1360-1963	2, 3, 7, 8, 9 and 10
iv)	Beam compass	IS : 2466-1963	2, 3, 9 and 12
v)	Drawing boards and plane tables	IS : 2539-1963 IS : 1444-1963	4, 5, 8, 9, 10, 14, 17, 20, 21, 31 and 40
vi)	Levelling staves	IS : 1779-1961	4, 5, 6, 8, 17, 41 and 42
vii)	Ranging poles	IS : 2288-1963	5, 6, 8, 9, 17, 37, 41, 42 and 43
viii)	Pen holders	—	1, 25, 26, 35, 36, 37, 38, 39, 44, 45 and 47
ix)	Instruments boxes	—	1, 5, 6, 8, 16, 17, 31, 37, 38, 41, 43 and 44
x)	Stands for instruments	IS : 2539-1963	8, 17, 23, 24, 44 and 46
xi)	Thermometer scales	—	6, 8, 25, 31, 34, 35, 36, 37, 39, 41, 44 and 45

*For titles, see the list of Indian Standards given on pages 5 and 6.

TABLE 2 COMMON INDIAN TIMBERS

(Clause 2.1.1 and Table 1)

TIMBER SPECIES NO.	BOTANICAL NAME	TRADE NAME
1	<i>Adina cordifolia</i> Hook. f.	Haldu
2	<i>Diospyros</i> sp.	Ebony
3	<i>Dalbergia latifolia</i> Roxb.	Rosewood
4	<i>Cupressus torulosa</i> Don	Cypress
5	<i>Pinus wallichiana</i> A. B. Jacks	Kail
6	<i>Cedrus deodara</i> Loudon	Deodar
7	<i>Swietenia</i> sp.	Mahogany
8	<i>Tectona grandis</i> Linn. f.	Teak
9	<i>Dalbergia sissoo</i> Roxb.	Sissoo
10	<i>Pterocarpus marsupium</i> Roxb.	Bijasal
11	<i>Juglans</i> sp.	Walnut
12	<i>Buxus sempervirens</i> Linn.	Boxwood
13	<i>Lagerstroemia lanceolata</i> Wall	Bentek
14	<i>Abies</i> sp.	Fir
15	<i>Quercus</i> sp.	Oak
16	<i>Toona ciliata</i>	Toon
17	<i>Artocarpus hirsuta</i> Lamk.	Aini
18	<i>Hardwickia binata</i> Roxb.	Anian
19	<i>Terminalia manii</i> King	Black Chuglam
20	<i>Pterocarpus dalbergioides</i> Roxb.	Padauk
21	<i>Albizia procera</i> Benth.	Safed Siris
22	<i>Boswellia serrata</i> Roxb.	Salai
23	<i>Fraxinus</i> sp.	Ash
24	<i>Morus</i> sp.	Mulberry
25	{ <i>Gardenia</i> sp.	Gardenia
26	<i>Gardenia latifolia</i> Aiton	Dudhi
27	<i>Wrightia</i> sp.	Parrotia
28	<i>Parrotiopsis jacquemontiana</i> (Deenc) Rehd.	Bamboo
29	<i>Pseudostachyum polymorphum</i>	Kalam
30	<i>Mitragyna parvifolia</i> (Roxb.) Korth	Kuthan
31	<i>Hymenodictyon excelsum</i> Wall	Gamari
32	<i>Gmelina arborea</i> Linn.	Horse Chestnut
33	<i>Aesculus indica</i> Colebr.	Randia
34	<i>Randia dumetorum</i>	Nimichambeli
35	<i>Millingtonia hortensis</i>	Kaim
36	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	Kanju
37	<i>Holoptelea integrifolia</i> Planch.	Chickrassy
38	<i>Chukrasia tabularis</i> Adr. Juss.	Bonsum
39	<i>Phoebe</i> sp.	Maple
40	<i>Acer</i> sp.	Spruce
41	<i>Picea smithiana</i> Boiss.	Champ
42	<i>Michelia</i> sp.	Hollock
43	<i>Terminalia myriocarpa</i>	Pyinma
44	<i>Lagerstroemia hypoleuca</i> Kurz.	Birch
45	<i>Betula</i> sp.	Kathal
46	<i>Artocarpus heterophyllus</i> Lamk.	Silver Oak
47	<i>Grevillea robusta</i> A. Cunn	Kurchi
	<i>Holarrhena antidysenterica</i> Wall	

INDIAN STANDARDS

ON

DRAWING AND SURVEYING INSTRUMENTS

IS:

- 1360-1963 Engineers' pattern tee squares (*revised*)
- 1444-1963 Engineers' pattern drawing boards (*revised*)
- 1480-1960 Metric scales for general purposes
- 1481-1961 Metric steel scales for engineers
- 1482-1970 Metric scales for use with drafting machines (*first revision*)
- 1491-1959 Metric scales for architectural purposes
- 1561-1962 Set squares for use of drawing offices
- 1562-1962 Metric diagonal scales (cartographers, surveyors and engineers)
- 1563-1962 Protractors for use of drawing offices
- 1779-1961 4-Metre, levelling staff, folding type
- 2233-1962 Straightedges for drawing office use
- 2286-1963 Pantograph
- 2287-1963 Drafting machines
- 2288-1963 Ranging rods
- 2466-1963 Beam compasses
- 2533-1963 Geometry boxes
- 2539-1963 Plane tables
- 2666-1963 Slide rules (linear type)
- 3206-1965 Engineers' drawing instruments, dividers
- 3207-1965 Engineers' drawing instruments, rotating compasses
- 3208-1965 Engineers' drawing instruments, half set of compasses
- 3209-1965 Engineers' drawing instruments, spring bow compasses
- 3210-1965 Engineers' drawing instruments, drawing pens
- 3211-1965 Engineers' drawing instruments, pen points
- 3212-1965 Engineers' drawing instruments, lengthening bars
- 3213-1965 Engineers' drawing instruments, handles
- 3214-1965 Engineers' drawing instruments, pencil points
- 3215-1965 Engineers' drawing instruments, needle points
- 3216-1965 Engineers' drawing instruments, needles
- 3217-1965 Engineers' drawing instruments, prickers
- 3218-1968 Parallel rulers, 150 mm (link type)

3219-1966 Engineers' drawing instruments, boxes for leads and needles

3220-1966 Engineers' drawing instruments, screw drivers

3221-1966 Sets for drawing instruments

3222 (Part I)-1966 Instrument screws: Part I Fasteners for drawing instruments

3602-1966 Recommendations for the design of scales and indexes for indicating instruments for scales of 1 to 2 percent resolution

5153-1969 Proportional compasses — 150 mm, 200 mm and 300 mm

5205-1969 Drawing pins

5213-1969 French curves for drawing office use

5694-1970 Engineers' drawing instruments, dotting pens

5726-1970 Engineers' drawing instruments bordering pens

5737-1970 Engineers' drawing instruments curve pens